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| APPLICATION NO.                     | FILING     | DATE       | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|-------------------------------------|------------|------------|----------------------|-------------------------|------------------|
| 10/518,874                          | 07/21/2005 |            | Eric Roth            | 93537                   | 2884             |
| 24628                               | 7590       | 01/13/2006 | EXAMINER             |                         | NER              |
| WELSH &                             | KATZ, LTD  |            | KINKEAD, ARNOLD M    |                         |                  |
| 120 S RIVERSIDE PLAZA<br>22ND FLOOR |            |            |                      | ART UNIT                | PAPER NUMBER     |
| CHICAGO, IL 60606                   |            |            | 2817                 | ·                       |                  |
|                                     |            |            |                      | DATE MAILED: 01/13/2006 | 5                |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.  | Applicant(s)   |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
|   | 10/518,874   | ROTH, ERIC   |  |  |  |  |  |
| Office Action Summary   | Examiner   | Art Unit   |  |  |  |  |  |
|   | Arnold M. Kinkead  | 2817   |  |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | ears on the cover sheet with the c   | orrespondence address  |  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period wa - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE   | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |  |  |  |  |  |
| Status  |  |  |  |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on 21 De   | ecember 2004   |  |  |  |  |  |  |
|   | action is non-final.   |  |  |  |  |  |  |
|   | · —  |  |  |  |  |  |  |
| closed in accordance with the practice under E  | ·  |  |  |  |  |  |  |
|   | , ,  |  |  |  |  |  |  |
| Disposition of Claims   |  |  |  |  |  |  |  |
| 4) Claim(s) <u>1-5</u> is/are pending in the application.   |  |  |  |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  |  |  |  |  |  |  |  |
| 5) Claim(s) is/are allowed.   |  |  |  |  |  |  |  |
| 6)⊠ Claim(s) <u>1 and 5</u> is/are rejected.  | ⊠ Claim(s) <u>1 and 5</u> is/are rejected.   |  |  |  |  |  |  |
| 7)⊠ Claim(s) <u>2-4</u> is/are objected to.   |  |  |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or   | r election requirement.  |  |  |  |  |  |  |
| Application Papers  |  |  |  |  |  |  |  |
| 9) The specification is objected to by the Examine  | r.   |  |  |  |  |  |  |
| 10)⊠ The drawing(s) filed on 21 December 2004 is/a  | re: a)⊠ accepted or b)□ object   | ted to by the Examiner.  |  |  |  |  |  |
| Applicant may not request that any objection to the   | drawing(s) be held in abeyance. Se   | e 37 CFR 1.85(a).  |  |  |  |  |  |
| Replacement drawing sheet(s) including the correct  | ion is required if the drawing(s) is ob  | jected to. See 37 CFR 1.121(d).  |  |  |  |  |  |
| 11) The oath or declaration is objected to by the Ex  | aminer. Note the attached Office   | Action or form PTO-152.  |  |  |  |  |  |
| Priority under 35 U.S.C. § 119  |  |  |  |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list</li> </ul>   | s have been received. s have been received in Application in the control of the c | on No ed in this National Stage  |  |  |  |  |  |
| Attachment(s)   | <b>∧</b> □ • •   | (DTO 442)  |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 4) Interview Summary Paper No(s)/Mail D  | •  |  |  |  |  |  |
| Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date   |  | Patent Application (PTØ-152)   |  |  |  |  |  |

## **DETAILED ACTION**

The preliminary amendment filed 12-21-04 has been entered.

#### **Priority**

 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Abdel-Maguid et al(US 6,480,047 cited by applicant).

The reference by Abdel-Maguid et al discloses a DCO(3), see figure 2, with input and adder, see fig. 3, adder (16) for summing the inputs(word); the stable local oscillator(9) is shown. Coarse delay and fine delay lines are shown see figure 8, with plurality of series connected fine and coarse delay elements; as noted in col. 2, lines 35-40, the sum of the tapped delay lines being less than the one clock period; this being dependent on the local oscillator clock and

regardless of max or min delay selection. As shown in figure 6, there is one to one correspondence between the fine and coarse delay stages and each delay stage has a corresponding selector(A<1,...n>). A PLL loop is shown with divider (1/8) in the feedback path to phase detector(1).

## Allowable Subject Matter

4. Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold M.Kinkead

01/05/52

Primary Examiner

Art Unit 2817